

# **Intel® Workstation Board W2600CR2, W2600CR2L**

## **Intel® Workstation System Family P4000CR2**

### **Spares/Accessories List and Configuration Guide**

A reference guide to assist customers in ordering the necessary components to configure the Intel® Workstation Board W2600CR2 and the 4U Intel® Workstation Chassis.



Revision 1.3

May 2012

Enterprise Platforms and Services Marketing

## ***Revision History***

Jan '12 – Rev 1.0 - Updated descriptions, images, sales ordering details. Posted to CDI.

Feb '12 – Rev 1.1 – Updated Software sections and added “Lite” SKU.

Apr '12 – Rev 1.2 – Updated description details. Posted to CDI.

INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH INTEL® PRODUCTS. NO LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE, TO ANY INTELLECTUAL PROPERTY RIGHTS IS GRANTED BY THIS DOCUMENT. EXCEPT AS PROVIDED IN INTEL'S TERMS AND CONDITIONS OF SALE FOR SUCH PRODUCTS, INTEL ASSUMES NO LIABILITY WHATSOEVER, AND INTEL DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, RELATING TO SALE AND/OR USE OF INTEL PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

Intel products are not intended for use in medical, life saving, life sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice.

Intel server boards, server chassis, and processors may contain design defects or errors known as errata, which may cause the product to deviate from published specifications. Current characterized errata are available on request.

Intel, Intel Xeon, Pentium, and the Intel logo are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

\*Other names and brands may be claimed as the property of others.

Copyright © 2012, Intel Corporation

# Table of Contents:

<b>1. SYSTEM PRODUCT ORDER CODES</b> .....	<b>4</b>
1.1 PRODUCT DESCRIPTIONS – OVERVIEW .....	4
1.2 SUMMARY TABLE .....	4
1.3 AVAILABLE PRODUCTION BOARD ORDER CODE FOR W2600CR2 .....	4
1.4 AVAILABLE PRODUCTION SYSTEM ORDER CODES FOR P4000CR2 FAMILY .....	5
<b>2. SPARES AND ACCESSORIES ORDER CODES</b> .....	<b>7</b>
2.1 GENERAL SPARES AND ACCESSORIES .....	7
2.2 DRIVE/STORAGE SUBSYSTEM SPARES AND ACCESSORIES .....	9
2.3 EXPANSION MODULES: IO MODULE, SAS MODULE, RMM4, TPM .....	10
2.4 VMWARE VSPHERE* AND VCENTER* SERVER SKUS .....	14
2.5 SYMANTEC BACKUP EXEC 2010 SKUS .....	16

# 1. System Product Order Codes

## 1.1 Product Descriptions – Overview

The Intel® Workstation Board W2600CR2 is an Expert Workstation supporting two E5-2600 processors. It will be offered fully integrated in a 4U pedestal chassis. The chassis is not sold separately.

The Intel® Workstation Board W2600CR2L is a “Lite” SKU, similar to the W2600CR2 except that it does not have the rear IO connector for IO mezzanine modules. This board will be available in an integrated system for a limited time only. It will be discontinued within 90 days from launch and replaced with the Intel® Workstation Board W2600CR2.


## 1.2 Summary Table


For a quick overview, all configuration options described in this document are summarized in the table below. For more details such as MM numbers and product order codes, please refer to the other sections in this document.

Product Code	FF	HDD	# of HDD	Power supply	Rails	RAID	Storage Activation	Expander	Available
P4304CR2LFJNL*	4U	3.5" Fixed	4	1x1200W	None	1,0,10+	None	No	Q1'12
P4304CR2LFKN	4U	3.5" Fixed	4	1x1600W	None	1,0,10+	None	No	Q3'12
P4304CR2LFJN	4U	3.5" Fixed	4	1x1200W	None	1,0,10+	None	No	Q2'12
P4304CR2LFGN	4U	3.5" Fixed	4	1x750W	None	1,0,10+	None	No	Q2'12

\*Note: This SKU will be available TTM for a limited time only. It will be discontinued within 90 days from launch and replaced with P4304CR2LFJN.

## 1.3 Available Production Board Order Code for W2600CR2


Image	Product Code MM UPC EAN MOQ	Description
	<p>W2600CR2 916028 735858239301 5032037034074 1</p>	<p>W2600CR2 Spare Board with Dual NIC, Single Pack</p> <ul style="list-style-type: none"> <li>• Supports Dual Intel® Xeon E5-2600 processors 150W max</li> <li>• Intel® C600 series chipset</li> <li>• 16 DDR3 DIMM slots</li> <li>• 8 PCIe slots: <ul style="list-style-type: none"> <li>Slot1: PCIe3 x16 electrical (x16 slot), FL, DW</li> <li>Slot2/4/6: PCIe3 x8 or x0 electrical (x8 slot), FL</li> <li>Slot3/5/7: PCIe3 x8 or x16 electrical (x16 slot), FL, DW <ul style="list-style-type: none"> <li>• x16 mode requires PCIe Gen3 x8 MUX</li> <li>• x16 mode borrows x8 from adjacent Slot</li> </ul> </li> <li>Slot8: PCIe2 x4 electrical (x8 slot): HL</li> </ul> </li> <li>• Intel® SAS ROC Mezz slot</li> <li>• Intel® IO Module Mezz slot supports Gen 1 speed.</li> </ul>




		<ul style="list-style-type: none"> <li>• 8 SCU SATA/SAS ports (4 ports functional w/ no storage keys and 4 ports require storage keys)</li> <li>• 2 SATA 6G AHCI ports</li> <li>• Intel® Dual Gigabit Ethernet with Intel® Virtualization Technology</li> <li>• Integrated Baseboard Management Controller with IPMI 2.0</li> <li>• Option for advanced management functions with KVM and dedicated NIC for remote management</li> <li>• Onboard HD audio support</li> <li>• USB3.0 support</li> <li>• Firewire 1394b support</li> <li>• eSATA support</li> </ul> <p>Target availability: Q2'12</p>
	<p>W2600CR2L 921559 735858247184 5032037042147 1</p>	<p>W2600CR2L Spare Board with Dual NIC, Single Pack</p> <ul style="list-style-type: none"> <li>• Same functionality as W2600CR2 with the exception of the IO Module Mezzanine slot.</li> </ul> <p>This board will be available for a limited time only. It will be discontinued within 90 days from launch and replaced with W2600CR2.</p> <p>Target availability: Q1'12</p>

### 1.4 Available Production System Order Codes for P4000CR2 Family

The systems described in this section are pre-integrated at the factory. The chassis is not sold separately.




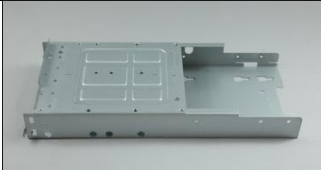



EPSD Romley Chassis and Systems shipped to the US & Canada will contain North American power cords. North American customers no longer need to order skus ending in "NA" to receive power cords on Romley products.

Image	Product Code MM UPC EAN MOQ	Description
 <p>*Demonstration only, see description for configuration details.</p>	<p>P4304CR2LFJNL* 921563 735858247214 5032037042178 1</p>	<p>Integrated Intel® Server System W2600CR2L board in Intel "Union Peak L-WS" 4U pedestal chassis</p> <ul style="list-style-type: none"> <li>• Supports up to 4x3.5" Fixed HDD</li> <li>• Power distribution board (FUPPDBHC)</li> <li>• Two CPU heat sinks (AUPSRCBTA)</li> <li>• Four 3.5" drive carriers</li> <li>• Control panel</li> <li>• Front Bezel (FUPBEZELFIX)</li> <li>• Fixed System fans included (FUPNHFANCPU)</li> <li>• Processor/memory air duct</li> <li>• One 1200W PSU, Platinum level efficiency</li> </ul> <p>This system will be available for a limited time only.</p>

		<p>It will be discontinued within 90 days from launch and replaced with P4304CR2LFJN.</p> <p>Target availability: Q1'12</p>
 <p>*Demonstration only, see description for configuration details.</p>	<p>P4304CR2LFJN 916047 735858239233 5032037034005 1</p>	<p>Integrated Intel® Server System W2600CR2 board in Intel “Union Peak L-WS” 4U pedestal chassis</p> <ul style="list-style-type: none"> <li>• Supports up to 4x3.5" Fixed HDD</li> <li>• Power distribution board</li> <li>• Two CPU heat sinks (AUPSRCBTA)</li> <li>• Four 3.5" drive carriers</li> <li>• Control panel</li> <li>• Front Bezel</li> <li>• Fixed System fan included</li> <li>• Processor/memory air duct</li> <li>• One 1200W PSU, Platinum level efficiency</li> </ul> <p>Target availability: Early Q2'12</p>
 <p>*Demonstration only, see description for configuration details.</p>	<p>P4304CR2LFGN 916048 735858239240 5032037034012 1</p>	<p>Integrated Intel® Server System W2600CR2 board in Intel “Union Peak L-WS” 4U pedestal chassis</p> <ul style="list-style-type: none"> <li>• Supports up to 4x3.5" Fixed HDD</li> <li>• Power distribution board</li> <li>• Two CPU heat sinks (AUPSRCBTA)</li> <li>• Four 3.5" drive carriers</li> <li>• Control panel</li> <li>• Front Bezel</li> <li>• Fixed System fan included</li> <li>• Processor/memory air duct</li> <li>• One 750W PSU, Platinum level efficiency</li> </ul> <p>Target availability: Early Q2'12</p>
 <p>*Demonstration only, see description for configuration details.</p>	<p>P4304CR2LFKN 916046 735858248624 5032037043366 1</p>	<p>Integrated Intel® Workstation System W2600CR2 board in Intel “Union Peak L-WS” 4U pedestal chassis</p> <ul style="list-style-type: none"> <li>• Supports up to 4x3.5" Fixed HDD</li> <li>• Power distribution board</li> <li>• Two CPU heat sinks (AUPSRCBTA)</li> <li>• Four 3.5" drive carriers</li> <li>• Control panel</li> <li>• Front Bezel</li> <li>• Fixed System fan included</li> <li>• Processor/memory air duct</li> <li>• One 1600W PSU, Platinum level efficiency</li> </ul> <p>Target availability: Q3'12.</p>

## 2. Spares and Accessories Order Codes

### 2.1 General Spares and Accessories

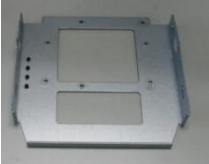

Image	Product Code MM UPC EAN MOQ	Description
	FXX750PCRPS 915604 00735858234979 5032037030601 1	750W Cold Redundant Power Supply spare 80Plus Platinum efficiency for P4000, R1000, and R2000 server chassis
	FXX1200PCRPS 915605 735858225137 5032037035071 1	1200W Cold Redundant Power Supply spare 80Plus Platinum efficiency for P4000, and R2000 server chassis
	FXX1600PCRPS 915606 <b>UPC TBD</b> <b>EAN TBD</b> 1	1600W Cold Redundant Power Supply spare 80Plus Platinum efficiency for P4000, and R2000 server chassis  Target availability Q3'12.
	FUPCRPSCAGE 915607 00735858235891 5032037030656 1	Common Pedestal CRPS PSU cage assembly (cage, adaptor bracket, screws, supporting bulkhead, 1x blank filler)
	FUPPDBHC 916813 735858238748 5032037033527 1	Power Distribution Board Spare (High Current) for P4000 server chassis. Recommend to use with FXX750PCRPS, FXX1200PCRPS, or FXX1600PCRPS power supplies.
	AUPSRCBTA 915294 735858236164 5032037030939 1	The production Intel® heat sink sets (2 included), SRC-B tower active, 98mmx100mm, required for production Intel® S2600CR workstation board to be used in production Intel® 4U workstation chassis W4000 series
	FUPNHFANCPU 919572 00735858236034 5032037030793 1	Fixed Fan Spare Kit for P4000 24/27" for CPU area for UPM , or either CPU or PCI area fan in UPL  Includes; (1) 120mm fixed fan

	FIPCRUPMAD 915631 00735858236072 5032037030830 1	Air duct spare for S2600IP and S2600CR in P4000 (27") server chassis
	AXXVRAIL 912796 00735858219693 5032037015202 1	Value Rail Kit Works for 438mm wide Intel 1U/2U Rack Chassis (R1300, R1200, R2200, R2300, P4000 System Families) Includes; two rails
	AXX3U5UPRAIL 915634 00735858236119 5032037030892 1	Advanced rail kit for P4000 Server Chassis used when converting Pedestal chassis to 4U rack chassis, and full extension rails are needed.  Includes; two rails
	AXX3U5UCMA 915635 00735858236126 5032037030908 1	Rack Cable Management AXX3U5UCMA (For Use with Advanced Rail Kit AXX3U5UPRAIL for Intel® Server Chassis P4000 Family)
	FUPBEZELFIX 911886 00735858219457 5032037016254 1	Bezel spare for P4000 server chassis with fixed drives (no door)
	AUPBEZEL4UF 915636 00735858235976 5032037030731 1	Rack bezel kit for converting P4000 pedestal server chassis to rack chassis  Includes: bezel frame, and 2 rack handles
	AUPBEZEL4UD 915637 00735858235983 5032037030748 1	Rack bezel accessory for P4000 chassis in rack configuration - security door only
Picture not yet available	AUPLWSFIO 920851 735858244701 5032037039277 1	Front IO Panel for use with Intel Workstation. It includes Audio, eSATA, 1394B ports and a slot for a 3.5" device such as an USB reader.
Picture not yet available	AW2600CR2IOS 920857 <b>EAN TBD</b> <b>UPC TBD</b> 1	Spare IO Shield for W2600CR2 board.
	FXXFPANEL 915982 00735858222419 5032037018968 1	Front Panel board spare for P4000, R1000, R2000 server chassis






	A4ULCP 921029 00735858244695 5032037039260 1	LCP Module (local control panel) Enables system to display critical errors from SEL for instant diagnostic. Also allows custom message for branding.  Available in Q2 2012
Image not yet available	FUPLMSK 915654  00735858236010 5032037030779 1	Chassis Maintenance kit for P4000 27" server chassis (Mechanical Spares Kit)  Includes EMI cover, PCI card retainer {4x 3.5" EMI cover, 8x 3.5" EMI cover, ODD rail x4, #6-32 screw x20, M3x12 USB cable screw x2, M2x10
	FUPLESK 915655  00735858236027 5032037030786 1	Chassis Maintenance kit for P4000 27"  Includes power cable extension, 1x4 -> 2x2 power adaptor cable accessory (for 2.5" HDD connector)
	FPWRCABLENA 879287 00735858181129 1	North American Power Cord Spare

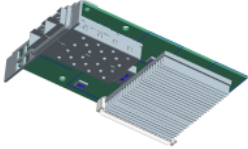

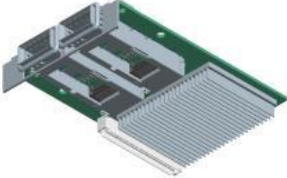


## 2.2 Drive/storage subsystem spares and accessories








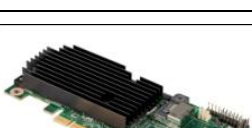


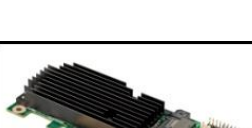
Image	Product Code MM UPC EAN MOQ	Description
	FUP4X35NHDK 912770 00735858219488 5032037016247 4	Fixed Drive Carrier spare for P4300 server chassis (compatible with 2.5" HDDs/SSDs)
	RKSATA4R5 916346 735858238861 5032037033640 5	Patsburg-A SATA SW LSI RAID 5 Key, Black
	RKSATA8 916347 735858238878 5032037033657 5	8port SATA Key, Blue
	RKSATA8R5 916348 735858238885 5032037033664 5	8port SATA with LSI SW RAID 5 Key, White
	RKSAS4 916349 735858238892	4port SAS Key, Green





	5032037033671 5	
	RKSAS4R5 916350 735858238908 5032037033688 5	4port SAS with LSI SW RAID 5 Key, Yellow
	RKSAS8 916351 735858238922 5032037033701 5	8port SAS Key, Orange
	RKSAS8R5 916352 735858238915 5032037033695 5	8port SAS with LSI SW RAID 5 Key, Purple

### 2.3 Expansion modules: IO Module, SAS Module, RMM4, TPM

Image	Product Code MM UPC EAN MOQ	Description
	AXXRMM4LITE 911660 00735858219297 5032037014946 1	Intel® Remote Management Module RMM4LITE - Activation key for advanced management features including remote KVM.
	AXXRMM4 911670 00735858219303 5032037014922 1	Intel® Remote Management Module RMM4 – Activation key for advanced management features including remote KVM <u>plus</u> Dedicated NIC Module.
	AXXTPME5 919737 735858240352 5032037035088 1	Trusted Platform Module for server systems
Picture not yet available	AXXIOMKIT 920852 735858244978 5032037039543 1	IO Module Cable and Brackets for use with Intel® Workstation Board W2600CR2 in the Intel® Server chassis P4000.

	<p>AXX10GBNIAIOM 917905 735858241090 5032037035842 1</p>	<p>Dual SFP+ port 10GbE IO module based on Intel® 82599 10 Gigabit Ethernet Controller</p> <p>Supports direct connect or transceiver. Cables/transceivers not included. Includes three screws.</p> <p>Requires IO Module Kit AXXIOMKIT.</p>
	<p>AXX10GBTWLIOM 917907 735858241113 5032037035866 1</p>	<p>Dual RJ-45 port 10GBASE-T IO module, based on Intel® Ethernet Controller X540</p> <p>Includes three screws.</p> <p>Requires IO Module Kit AXXIOMKIT.</p>
 <p>*Dual ports shown</p>	<p>AXX1FDRIBIOM 918607 735858241106 5032037035859 1</p>	<p>Single port, FDR 56GT/S speed Intel I/O Expansion Infiniband module, with QSFP connector, based on Mellanox CX3 MT27504A1-FCCR-FV chip.</p> <p>Includes three screws *Dual port shown on picture</p> <p>Requires IO Module Kit AXXIOMKIT.</p>
	<p>AXX2FDRIBIOM 920627 735858245722 5032037040235 1</p>	<p>Dual port, FDR 56GT/S (per port capable) speed Infiniband module, with QSFP connector, based on Mellanox CX3 MT27508A1-FCCR-FV chip. Note, due to PCIe x8 bandwidth limitation, both ports can't simultaneously function at full speed.</p> <p>Includes three screws.</p> <p>Requires IO Module Kit AXXIOMKIT.</p>
	<p>AXX4P1GBPWL IOM 917911 735858241083 5032037035835 1</p>	<p>Quad port 1GbE IO Module based on Intel® Ethernet Controller I350</p> <p>Requires IO Module Kit AXXIOMKIT.</p>
<p>Image not yet available.</p>	<p>AXXQAAIOMOD 920561 735858244848 5032037039413 1</p>	<p>Intel® Quick Assist Accelerator I/O Module</p> <p>Requires IO Module Kit AXXIOMKIT.</p> <p>Target availability: Q3'12.</p>
<p>Image not yet available.</p>	<p>AXXQAAPCIE 920562 735858244855 5032037039420 1</p>	<p>Intel® Quick Assist Accelerator PCIe card</p> <p>Target availability: Q3'12.</p>

	<p>AUPLGPUBR 920612 00735858244480 5032037039055 1</p>	<p>Bracket for securing full length GPU cards to fan bulkhead, for use in P4000L/P4000L-WS, includes 1 bracket, 4 GPGPU power cables and 7 screws for GPGPU fixture.</p>
	<p>RMS25CB080 917084 735858238977 5032037033756 5</p>	<p>SAS Module: 8 Port SAS-2.1 version, Full HW RAID, 1GB onboard cache memory. Supports RAID levels 0,1,5,6 and spans. Supports Battery Backup Unit. Mezzanine card form factor – does not occupy PCIe slot</p>
	<p>RMS25CB040 917085 735858238984 5032037033763 5</p>	<p>SAS Module: 4 Port SAS-2.1 version, Full HW RAID, 1GB onboard cache memory. Supports RAID levels 0,1,5,6 and spans. Supports Battery Backup Unit. Mezzanine card form factor – does not occupy PCIe slot</p>
	<p>RMS25KB080 917089 735858239028 5032037033800 5</p>	<p>Intel® Integrated RAID Module RMS25KB080, PCIe Slot, LSI2308 I/O Controller, 8P Internal SAS, LSI IR-based RAID 0,1,1E  Requires PClex8 slot</p>
	<p>RMS25KB040 917090 735858239035 5032037033817 5</p>	<p>Intel® Integrated RAID Module RMS25KB040, PCIe Slot, LSI2308 I/O Controller, 4P SAS, LSI IR-based RAID 0,1,1E  Requires PClex8 slot</p>
	<p>RMT3CB080 917086 735858238991 5032037033770 5</p>	<p>SATA Module: 8P SATA-3 version, Full HW RAID, 512MB integrated cache memory. Supports RAID levels 0,1,5,6 and spans. Supports Battery Backup Mezzanine card form factor – does not occupy PCIe slot</p>
	<p>RMS25PB080 917056 735858238946 5032037033725 5</p>	<p>Intel® Integrated RAID Module RMS25PB080, PCIe Slot, LSI2208 ROC, 8P Internal SAS/SATA, LSI MegaRAID-based Firmware, 1GB DDR3, RAID 0,1,10,5,50,6,60  Requires PClex8 slot</p>
	<p>RMS25PB040 917078 735858238953 5032037033732 5</p>	<p>Intel® Integrated RAID Module RMS25PB040, PCIe Slot, LSI2208 ROC, 4P Internal SAS/SATA, LSI MegaRAID-based Firmware, 1GB DDR3, RAID 0,1,10,5,50,6,60  Requires PClex8 slot</p>
	<p>RMS25JB080 917087 735858239004 5032037033787 5</p>	<p>Mezzanine SAS IO module: 8 Port SAS-2.1 version, Entry-level HW RAID/straight SAS</p>
	<p>RMS25JB040 917088 735858239011 5032037033794 5</p>	<p>Mezzanine SAS IO module: 4 Port SAS-2.1 version, Entry-level HW RAID/straight SAS</p>
	<p>RMT3PB080 917079 735858238960 5032037033749 5</p>	<p>Intel® Integrated RAID Module RMT3PB080, PCIe Slot, LSI2208 ROC, 8P Internal SATA (only), LSI MegaRAID-based Firmware, 512MB DDR3, Restricted to use only SATA drives, R0,1,10,5,50,6,60</p>

		Requires PCIe x8 slot
Image not yet available	<p>AXXRMFBU2 919876 735858244541 5032037039116 5</p>	Intel® RAID Maintenance Free Backup Unit
	<p>AXXRSBBU9 914238 735858220286 5032037039567 5</p>	Intel® RAID Smart Battery AXXRSBBU9 provides optional battery backup for mainstream RS25, RMS25, RT3 and RMT3 family RAID products.
	<p>SVCORDPSY 916902 1</p>	Intel® On-site repair for two processor Intel® Server Systems.
	<p>SVCEWDPSY 911295 1</p>	Two year extended warranty for Intel® Server Systems or Intel® Server Knock Down Kits + Intel® Server Boards that support two processors. Intel® RAID controller extended warranty is purchased separately.
	<p>SVCEWDPBD 911294 1</p>	Two year extended warranty for Intel® Server Boards that support two processors.

## 2.4 VMware vSphere\* and vCenter\* Server SKUs

Each VMware vSphere SKU contains a paper certificate with a software product activation code. As directed on the certificate, the end user must register the product activation code with VMware at <http://www.vmware.com/code/intel> to access VMware Software, Support and Subscription Services.

VMware vSphere\* and vCenter\* Server Editions

All VMware vSphere SKUs (except Essentials) are bundled with either 1 year VMware Basic (12x5) or with 1 year VMware Production (24x7) Support and Subscription. The Essentials SKU is bundled with 1 year VMware Subscription.

<b>Essentials</b>	VMware vSphere 5 Essentials Bundle for 3 hosts (Max 2 processors per host) and 192 GB vRAM entitlement with 1 year VMware Subscription.
<b>Essentials Plus</b>	VMware vSphere 5 Essentials Plus Bundle for 3 hosts (Max 2 processors per host) and 192 GB vRAM entitlement with 1 year VMware Basic (12x5) Support and Subscription with 1 year VMware Production (24x7) Support and Subscription
<b>Standard</b>	VMware vSphere 5 Standard for 1 processor (with 32 GB vRAM entitlement per processor) with 1 year VMware Basic (12x5) Support and Subscription with 1 year VMware Production (24x7) Support and Subscription
<b>Enterprise</b>	VMware vSphere 5 Enterprise for 1 processor (with 64 GB vRAM entitlement per processor) with 1 year VMware Basic (12x5) Support and Subscription with 1 year VMware Production (24x7) Support and Subscription
<b>Enterprise Plus</b>	VMware vSphere 5 Enterprise Plus for 1 processor (with 96 GB vRAM entitlement per processor) with 1 year VMware Basic (12x5) Support and Subscription with 1 year VMware Production (24x7) Support and Subscription
<b>VMware vCenter* Server Standard for vSphere 5</b>	VMware vCenter Server 5 Standard for vSphere 5 (Per Instance) One instance of vCenter Server is required to centrally manage virtual machines and their hosts and to enable all VMware vSphere features on Standard, Enterprise and Enterprise Plus editions. with 1 year VMware Basic (12x5) Support and Subscription with 1 year VMware Production (24x7) Support and Subscription

### VMware vSphere\* and VMware vCenter\* – Order Codes:

Product Code	UPC	MM	Description	Minimum Order Quantity
VMW5ESS	7 35858 22474 1	918769	Paper certificate containing software license activation code for VMware vSphere 5 Essentials Bundle for 3 hosts (Max 2 processors per host) and 192 GB vRAM entitlement with 1 year VMware Subscription.	1
VMW5ESSPLUS	7 35858 22475 8	918774	Paper certificate containing software license activation code VMware vSphere 5 Essentials Plus Bundle for 3 hosts (Max 2 processors per host) and 192 GB vRAM entitlement with 1 year	1

			VMware Basic (12x5) Support and Subscription.	
VMW5ESSPLUSP	7 35858 22476 5	918768	Paper certificate containing software license activation code for VMware vSphere 5 Essentials Plus Bundle for 3 hosts (Max 2 processors per host) and 192 GB vRAM entitlement with 1 year VMware Production (24x7) Support and Subscription.	1
VMW5STD	7 35858 22477 2	918773	Paper certificate containing software license activation code for VMware vSphere 5 Standard for 1 processor (with 32 GB vRAM entitlement per processor) with 1 year VMware Basic (12x5) Support and Subscription.	1
VMW5STDP	7 35858 22478 9	918767	Paper certificate containing software license activation code for VMware vSphere 5 Standard for 1 processor (with 32 GB vRAM entitlement per processor) with 1 year VMware Production (24x7) Support and Subscription.	1
VMW5ENT	7 35858 22479 6	918772	Paper certificate containing software license activation code for VMware vSphere 5 Enterprise for 1 processor (with 64 GB vRAM entitlement per processor) with 1 year VMware Basic (12x5) Support and Subscription.	1
VMW5ENTP	7 35858 22484 0	918770	Paper certificate containing software license activation code for VMware vSphere 5 Enterprise for 1 processor (with 64 GB vRAM entitlement per processor) with 1 year VMware Production (24x7) Support and Subscription.	1
VMW5ENTPLUS	7 35858 22480 2	918771	Paper certificate containing software license activation code for VMware vSphere 5 Enterprise Plus for 1 processor (with 96 GB vRAM entitlement per processor) with 1 year VMware Basic (12x5) Support and Subscription.	1
VMW5ENTPLUSP	7 35858 22481 9	918760	Paper certificate containing software license activation code for VMware vSphere 5 Enterprise Plus for 1 processor (with 96 GB vRAM entitlement per processor) with 1 year VMware Production (24x7) Support and Subscription.	1
VMW5VCSTD	7 35858 22482 6	918742	Paper certificate containing software license activation code for VMware vCenter Server 5 Standard for vSphere	1

			5 (Per Instance) with 1 year VMware Basic (12x5) Support and Subscription.	
VMW5VCSTDP	7 35858 22483 3	918759	Paper certificate containing software license activation code for VMware vCenter Server 5 Standard for vSphere 5 (Per Instance) with 1 year VMware Production (24x7) Support and Subscription.	1

## 2.5 Symantec Backup Exec 2010 SKUs

Each SKU contains a paper certificate with a Voucher key code. As directed on the certificate under “Frequently Asked Questions”, the end user must go to the Symantec licensing portal at <http://licensing.Symantec.com> to redeem their Voucher key. A Sales Order Number is also on the certificate and required for redemption. Please follow all the steps to obtain serial numbers and register for support.

### Symantec Backup Exec 2010 Suites (only available in North America)

All SKUs are bundled with 1 year Symantec Essentials (24x7) support.

<b>Symantec Backup Exec 2010</b>	Provides an all-in-one solution for small offices to consolidate and manage many application workloads while reducing hardware and operating costs with a low up-front investment. <ul style="list-style-type: none"> <li>One Backup Exec Server (per server)</li> </ul>
<b>Symantec Backup Exec 2010 for Windows Small Business Server</b>	The perfect data protection solution for Microsoft* Windows Small Business Server Standard and Premium editions. This robust solution provides integrated deduplication, granular restore features, open file protection, disaster recovery and backup protection for Microsoft Exchange, SharePoint Services, SQL and Windows workstations. <ul style="list-style-type: none"> <li>One Backup Exec for Windows Small Business Server (per server)</li> <li>One Agent for Microsoft Exchange server</li> <li>One Agent for Microsoft SQL Server</li> <li>One Agent for Microsoft Exchange Server</li> <li>One Agent for Microsoft Sharepoint Server</li> <li>Desktop/laptop option (up to 75)</li> <li>System Recovery for one Windows server</li> <li>System Recovery for one Windows Small Business server</li> </ul>
<b>Symantec Backup Exec 2010 Microsoft Exchange Suite</b>	Provides complete protection for your business-critical email server running Microsoft Exchange. <ul style="list-style-type: none"> <li>One Backup Exec Server (per server)</li> <li>One Agent for Microsoft* Exchange Server (per server)</li> </ul>
<b>Symantec Backup Exec 2010 Microsoft SQL Suite</b>	Provides complete protection for a business-critical transactional server running Microsoft SQL <ul style="list-style-type: none"> <li>One Backup Exec Server (per server)</li> <li>One Agent for Microsoft* SQL Server (per server)</li> </ul>
<b>Symantec Backup Exec 2010 Multi-Server Suite</b>	Provides a Remote Agent, Continuous Protection Agent capabilities, and also includes the Advanced Open File Option and Intelligent Disaster Recovery Option. <ul style="list-style-type: none"> <li>One Backup Exec Server (per server)</li> <li>Three Agents for Microsoft* Windows Systems (per server)</li> </ul>
<b>Symantec Backup Exec 2010 VMware Infrastructure Suite</b>	Backup for an unlimited number of guests running on VMware* virtualization environments on one physical server. <ul style="list-style-type: none"> <li>One Backup Exec Server (per server)</li> <li>One Agent for VMware Virtual Infrastructure* (per server)</li> </ul>



<b>Symantec Backup Exec 2010 Microsoft Hyper-V Suite</b>	Backup for an unlimited number of guests running on Microsoft Hyper-V* on one physical server. <ul style="list-style-type: none"> <li>• One Backup Exec Server (per server)</li> <li>• One Agent for Microsoft Hyper-V (per server)</li> </ul>
<b>Symantec Backup Exec 2010 Multi-Server DeDuplication Suite</b>	Backup for four Windows Servers, including deduplication option <ul style="list-style-type: none"> <li>• One Backup Exec Server (per server)</li> <li>• Three Agents for Microsoft Windows Systems (per server)</li> <li>• One Option for Deduplication (per server)</li> </ul>
<b>Symantec Backup Exec 2010 Exchange DeDuplication and Archiving Suite</b>	Backup for one Windows Server with Microsoft Exchange, including deduplication and archiving options: <ul style="list-style-type: none"> <li>• One Backup Exec Server (per server)</li> <li>• One Agent for Microsoft Exchange Server (per server)</li> <li>• One Option for Deduplication (per server)</li> <li>• One Option for Microsoft Exchange Mailbox Archiving (up to 10 mailboxes)</li> </ul>

### Symantec System Recovery 2011 Editions (only available in North America)

All SKUs are bundled with 1 year Symantec Essentials (24x7) support.

<b>Symantec System Recovery 2011 Server Edition</b>	<ul style="list-style-type: none"> <li>• Includes 1 license for Symantec System Recovery 2011 Server Edition</li> <li>• Includes 1 license for Symantec System Recovery 2011 Desktop Edition</li> <li>• Includes 1 license for Granular Restore Option</li> </ul>
<b>Symantec System Recovery 2011 Small Business Server Edition</b>	<ul style="list-style-type: none"> <li>• Includes 1 license for Symantec System Recovery 2011 SBS Server Edition</li> <li>• Includes 1 license for Granular Restore Option</li> </ul>
<b>Symantec System Recovery 2011 Desktop Edition</b>	<ul style="list-style-type: none"> <li>• Includes 1 license for Symantec System Recovery 2011 Desktop Edition</li> </ul>

### Symantec Backup Exec 2010 and System Recovery 2011 – Order Codes:

Product Code	UPC	MM	Description	Minimum Order Quantity
SYMCBE	7 35858 21992 1	911526	Paper certificate containing voucher key for one Backup Exec Media Server license with 1 year Symantec Essentials 24x7 Support.	1
SYMCBESBS	7 35858 21996 9	911532	Paper certificate containing voucher key for one Backup Exec for Windows* Small Business Server (SBS), agent for Microsoft Exchange, agent for Microsoft SQL, agent for Microsoft Sharepoint, agent for Windows systems (1 license), Desktop and Laptop option (up to 75 licenses), and Backup Exec System Recovery 2010 (1 license for server and SBS server) with 1 year Symantec Essentials 24x7 Support.	1
SYMCBE3WIN	7 35858 21993 8	911554	Paper certificate containing voucher key for one Backup Exec Media Server	1

			license and three Agent for Windows Systems with 1 year Symantec Essentials 24x7 Support.	
SYMCBEEXC	7 35858 21994 5	911533	Paper certificate containing voucher key for one Backup Exec Media Server license and agent for Microsoft Exchange Server 2003, 2007 and, 2010 SP1 with 1 year Symantec Essentials 24x7 Support.	1
SYMCBESQL	7 35858 21997 6	911534	Paper certificate containing voucher key for one Backup Exec Media Server license and agent for Microsoft SQL Server 2008 R2, 2005, and 2000 users with granular protection on 32- and 64-bit systems down to the individual database or file group with 1 year Symantec Essentials 24x7 Support.	1
SYMCBEVMW	7 35858 21998 3	911536	Paper certificate containing voucher key for one Backup Exec Media Server license and one Backup Exec 2010 Agent for VMware Virtual Infrastructures with 1 year Symantec Essentials 24x7 Support.	1
SYMCBEHYP	7 35858 21995 2	911543	Paper certificate containing voucher key for one Backup Exec Media Server license and one Backup Exec 2010 Agent for Microsoft Hyper-V license with 1 year Symantec Essentials 24x7 Support.	1
SYMCDEDUP	7 35858 21999 0	911544	Paper certificate containing voucher key for one Backup Exec Media Server license, three Agent for Windows Systems, and one Deduplication Option license which will support your entire media server environment with 1 year Symantec Essentials 24x7 Support.	1
SYMCDEDUPA	7 35858 22000 2	911545	Paper certificate containing voucher key for one Backup Exec Media Server license, one Deduplication Option license, one Exchange Archive option (10 pack), and one Agent for Exchange with 1 year Symantec Essentials 24x7 Support.	1
SYMCSRSE	7 35858 22462 8	918312	Paper certificate containing voucher key for 1 license for Symantec System Recovery 2011 Server Edition, 1 license for Symantec System Recovery 2011 Desktop Edition and 1 license for Granular Restore Option with 1 year Symantec Essentials 24x7 Support.	1

SYMCSRSBS	7 35858 22463 5	918534	Paper certificate containing voucher key for 1 license for Symantec System Recovery 2011 SBS Server Edition and 1 license for Granular Restore Option with 1 year Symantec Essentials 24x7 Support.	
SYMCSRDT	7 35858 22464 2	918535	Paper certificate containing voucher key for 1 license for Symantec System Recovery 2011 Desktop Edition with 1 year Symantec Essentials 24x7 Support.	1